

b345;s pn=us 5693343;t1/39/1
 19may03 13:43:16 User259289 Session D551.1
 \$0.00 0.088 DialUnits File415
 \$0.00 Estimated cost File415
 \$0.46 TELNET
 \$0.46 Estimated cost this search
 \$0.46 Estimated total session cost 0.088 DialUnits

File 345:Inpadoc/Fam.& Legal Stat 1968-2003/UD=200319
 (c) 2003 EPO

Set	Items	Description
---	----	-----
S1	1	PN=US 5693343

1/39/1
 DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
 (c) 2003 EPO. All rts. reserv.

16636793
 Basic Patent (No,Kind,Date): WO 9113595 A1 19910919 <No. of Patents: 029>
 Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
AP 665	A	19980819	AP 971088	A	19961118
AP 9701088	A0	19971031	AP 971088	A	19961118
AU 9175589	A1	19911010	AU 9175589	A	19910315
AU 9183036	A1	19921221	AU 9183036	A	19910513
AU 9714104	A1	19970820	AU 9714104	A	19961118
AU 9863175	A1	19980818	AU 9863175	A	19980127
AU 722884	B2	20000810	AU 9714104	A	19961118
BR 9607752	A	19991130	BR 9607752	A	19961118
CA 2216371	AA	19970731	CA 2216371	A	19961118
CN 1188408	A	19980722	CN 96194768	A	19961118
EP 817619	A1	19980114	EP 96944247	A	19961118
EP 817619	A4	19990203	EP 96944247	A	19961118
JP 11509862	T2	19990831	JP 96526833	A	19961118
NZ 325561	A	19990629	NZ 325561	A	19961118
NZ 335409	A	20001222	NZ 335409	A	19961118
US 5417986	A	19950523	US 867301	A	19920410
US 5470311	A	19951128	US 248050	A	19940524
US 5693343	A	19971202	US 242960	A	19940516
US 5705197	A	19980106	US 698896	A	19960816
US 5762965	A	19980609	US 598874	A	19960209
US 6217911	BA	20010417	US 675895	A	19960705
US 6309669	BA	20011030	US 789734	A	19970127
US 6410056	BA	20020625	US 446148	A	19950522
US 6447796	BA	20020910	US 920326	A	19970821
US 6528097	BA	20030304	US 716856	A	20001120
WO 9113595	A1	19910919	WO 91US1777	A	19910315
WO 9219263	A1	19921112	WO 91US3328	A	19910513
WO 9726869	A1	19970731	WO 96US19440	A	19961118
WO 9832427	A1	19980730	WO 98US1556	A	19980127

(BASIC)

Priority Data (No,Kind,Date):

CN 96194768 A 19961118
 US 590973 A 19960124
 WO 91US1777 A 19910315
 US 493597 A 19900315
 WO 91US3328 A 19910513
 US 690485 A 19910424
 WO 96US19440 W 19961118
 US 789734 A 19970127

WO 98US1556 W 19980127
 NZ 325561 A1 19961118
 US 867301 A 19920410
 US 805721 B2 19911121
 US 690485 B2 19910424
 US 521945 B2 19900511
 US 493597 B2 19900315
 US 590308 A2 19840316
 US 248050 A 19940524
 US 242960 A 19940516
 US 867301 A2 19920410
 US 698896 A 19960816
 US 242960 A2 19940516
 US 598874 A 19960209
 US 446149 A2 19950522
 US 590308 B1 19840316
 US 675895 A 19960705
 US 590973 B2 19960124
 US 446149 B2 19950522
 US 446148 A2 19950522
 US 590308 B2 19840316
 US 446148 A 19950522
 US 209350 B2 19940107
 US 920326 A 19970821
 US 698896 A2 19960816
 US 675895 A2 19960705
 US 789734 A2 19970127
 US 716856 A 20001120
 US 675895 A3 19960705

PATENT FAMILY:

AFRICAN REG. IND. PROP. ORG. (AP)

Patent (No,Kind,Date): AP 665 A 19980819
 NOVEL "BURST FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE
 MICROSPHERES) (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): RAMASUBBU JEYANTHI (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
 19960124
 Applic (No,Kind,Date): AP 971088 A 19961118
 Designated States: (National) MW; ZW
 IPC: * A61K-009/50; A61K-031/765
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English
 Patent (No,Kind,Date): AP 9701088 A0 19971031
 NOVEL-BURST FREE SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE)
 MICROSPHERES (English)
 Patent Assignee: US ARMY (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
 19960124
 Applic (No,Kind,Date): AP 971088 A 19961118
 Designated States: (National) KE; LS; MW; SD; SZ; UG; ZW
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9175589 A1 19911010
 CHEMOTHERAPEUTIC TREATMENT OF BACTERIAL INFECTIONS WITH AN ANTIBIOTIC
 ENCAPSULATED WITHIN A BIODEGRADABLE POLYMERIC MATRIX (English)
 Patent Assignee: US SEC TH
 Author (Inventor): SETTERSTROM JEAN A; TICE THOMAS R; JACOB ELLIOT
 Priority (No,Kind,Date): WO 91US1777 A 19910315; US 493597 A

19900315

Applic (No,Kind,Date): AU 9175589 A 19910315

IPC: * A61F-002/00; A61F-013/00; A01N-025/26; A01N-025/28

Language of Document: English

Patent (No,Kind,Date): AU 9183036 A1 19921221

ORAL-INTESTINAL VACCINES AGAINST DISEASES CAUSED BY ENTEROPATHOGENIC ORGANISMS USING ANTIGENS ENCAPSULATED WITHIN BIODEGRADABLE-BIOCOMPATIBLE MICROSPHERES (English)

Patent Assignee: US SECRETARY O

Author (Inventor): REID ROBERT H; JARBOE DANIEL; CASSELS FREDERICK J; BOEDEKER EDGAR C; SETTERSTROM JEAN A

Priority (No,Kind,Date): WO 91US3328 A 19910513; US 690485 A 19910424

Applic (No,Kind,Date): AU 9183036 A 19910513

IPC: * A61K-039/00; A61K-039/12; A61K-039/02; A01N-037/18; A01N-037/00

Derwent WPI Acc No: * C 92-398530

Language of Document: English

Patent (No,Kind,Date): AU 9714104 A1 19970820

NOVEL "BURST-FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MICROSPHERES (English)

Patent Assignee: US ARMY (US)

Author (Inventor): JEYANTHI RAMASUBBU; HAMONT JOHN F VAN; FRIDEN PHIL; REID ROBERT H; ROBERTS F DONALD; MCQUEEN CHARLES E; SETTERSTROM JEAN A

Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A 19960124; WO 96US19440 W 19961118

Applic (No,Kind,Date): AU 9714104 A 19961118

IPC: * A61K-009/50

CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F

Language of Document: English

Patent (No,Kind,Date): AU 9863175 A1 19980818

THERAPEUTIC TREATMENT AND PREVENTION OF INFECTIONS WITH A BIOACTIVE MATERIAL ENCAPSULATED WITHIN BIODEGRADABLE-BIOCOMPATIBLE POLYMERIC MATRIX (English)

Patent Assignee: US ARMY (US)

Author (Inventor): SETTERSTROM JEAN A; HAMONT JOHN E VAN; REID ROBERT H; JACOB ELLIOT; JEYANTHI RAMASUBBU; BOEDEKER EDGAR C; MCQUEEN CHARLES E; TICE THOMAS R; ROBERTS F DONALD; FRIDEN PHIL

Priority (No,Kind,Date): US 789734 A 19970127; WO 98US1556 W 19980127

Applic (No,Kind,Date): AU 9863175 A 19980127

IPC: * A61K-009/52; A61K-047/30

CA Abstract No: * 129(13)166193X; 135(24)348878F; 137(15)222053F

Derwent WPI Acc No: * C 98-437043

Language of Document: English

Patent (No,Kind,Date): AU 722884 B2 20000810

NOVEL "BURST-FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MICROSPHERES (English)

Patent Assignee: US ARMY (US)

Author (Inventor): JEYANTHI RAMASUBBU; HAMONT JOHN F VAN; FRIDEN PHIL; REID ROBERT H; ROBERTS F DONALD; MCQUEEN CHARLES E; SETTERSTROM JEAN A

Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A 19960124; WO 96US19440 W 19961118

Applic (No,Kind,Date): AU 9714104 A 19961118

IPC: * A61K-009/50

CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F

Language of Document: English

BRAZIL (BR)

Patent (No,Kind,Date): BR 9607752 A 19991130

FORMULACAO FARMACEUTICA DE MICROCAPSULA DE LIBERACAO CONTROLADA, PROCESSO PARA SUA PREPARACAO, E, PROCESSO DE USO DAS MICROCAPSULAS (Portuguese)

Patent Assignee: US ARMY (US)
 Author (Inventor): JEYANTHI RAMASUBBU; HAMONT JOHN F VAN; FRIDEN PHIL;
 REID ROBERT H; ROBERTS F DONALD; MCQUEEN CHARLES E; SETTERSTROM JEAN A
 Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
 19960124; WO 96US19440 W 19961118
 Applic (No,Kind,Date): BR 96U7752 A 19961118
 IPC: * A61K-009/50
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: Portugese

CANADA (CA)

Patent (No,Kind,Date): CA 2216371 AA 19970731
 NOVEL "BURST-FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MICROSPHE
 RES (English; French)
 Patent Assignee: US ARMY (US)
 Author (Inventor): VAN HAMONT JOHN F (US); JEYANTHI RAMASUBBU (US);
 REID ROBERT H (US); MCQUEEN CHARLES E (US); ROBERTS F DONALD (US);
 FRIDEN PHIL (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
 19960124
 Applic (No,Kind,Date): CA 2216371 A 19961118
 IPC: * A61K-009/50; A61K-009/58
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English

CANADA (CA)

Legal Status (No,Type,Date,Code,Text):
 CA 2216371 P 19970924 CA REFW CORRESPONDS TO PCT
 APPLICATION (ENTSPRICHT PCT ANMELDUNG)
 WO 9726869 P

CHINA (CN)

Patent (No,Kind,Date): CN 1188408 A 19980722
 NOVEL 'BURST-FREE' SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MI
 CROSPHERES (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): JEYANTHI R (US); HAMONT J F VAN (US); FRIDEN P
 (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
 19960124
 Applic (No,Kind,Date): CN 96194768 A 19961118
 IPC: * A61K-009/50
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: Chinese

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 817619 A1 19980114
 NOVEL "BURST-FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MI
 CROSPHERES (English; French; German)
 Patent Assignee: US ARMY (US)
 Author (Inventor): JEYANTHI RAMASUBBU (US); VAN HAMONT JOHN F (US);
 FRIDEN PHIL (US); REID ROBERT H (US); ROBERTS F DONALD (US);
 MCQUEEN CHARLES E (US); SETTERSTROM JEAN A (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; WO 96US19440 W
 19961118; US 590973 A 19960124
 Applic (No,Kind,Date): EP 96944247 A 19961118
 Designated States: (National) AT; BE; CH; DE; DK; ES; FI; FR; GB; GR;
 IE; IT; LI; LU; MC; NL; PT; SE
 IPC: * A61K-009/50
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English
 Patent (No,Kind,Date): EP 817619 A4 19990203
 NOVEL "BURST-FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MI

CROSPHERES (English; French; German)
 Patent Assignee: US ARMY (US)
 Author (Inventor): JEYANTHI RAMASUBBU (US); VAN HAMONT JOHN F (US);
 FRIDEN PHIL (US); REID ROBERT H (US); ROBERTS F DONALD (US);
 MCQUEEN CHARLES E (US); SETTERSTROM JEAN A (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; WO 96US19440 W
 19961118; US 590973 A 19960124
 Applic (No,Kind,Date): EP 96944247 A 19961118
 Designated States: (National) AT; BE; CH; DE; DK; ES; FI; FR; GB; GR;
 IE; IT; LI; LU; MC; NL; PT; SE
 IPC: * A61K-009/50
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 817619	P	19960124	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
		US 590973	A	19960124	
EP 817619	P	19961118	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
		CN 96194768	A	19961118	
EP 817619	P	19961118	EP AA	PCT-APPLICATION	(PCT-ANMELDUNG)
		WO 96US19440	W	19961118	
EP 817619	P	19961118	EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
		EP 96944247	A	19961118	
EP 817619	P	19980114	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)	AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP 817619	P	19980114	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)	
EP 817619	P	19980401	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)	980130
EP 817619	P	19990203	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH REPORT: (IN EINEM ERGAENZENDEN RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)	AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP 817619	P	19990203	EP A4	SUPPLEMENTARY SEARCH REPORT (ERGAENZENDER RECHERCHENBERICHT)	981216
EP 817619	P	20000607	EP 18R	REFUSED (ZURUECKGEWIESEN)	

19991209

JAPAN (JP)

Patent (No,Kind,Date): JP 11509862 T2 19990831
 Patent Assignee: US ARMY (US)
 Priority (No,Kind,Date): CN 96194768 A 19961118; WO 96US19440 W
 19961118; US 590973 A 19960124
 Applic (No,Kind,Date): JP 96526833 A 19961118
 IPC: * A61K-009/52; A61K-047/30
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F

Language of Document: Japanese

NEW ZEALAND (NZ)

Patent (No,Kind,Date): NZ 325561 A 19990629
 PHARMACEUTICAL COMPOSITION CONTAINING AN ACTIVE INGREDIENT AND
 POLY(LACTIDE/GLYCOLIDE) MICROCAPSULES WHICH IS A BURST FREE
 CONTROLLED RELEASE FORMULATION (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): JEYANTHI RAMASUBBU; VAN HAMONT JOHN F; FRIDEN PHIL;
 REID ROBERT H; ROBERTS F DONALD; MCQUEEN CHARLES E; SETTERSTROM JEAN A
 Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
 19960124; WO 96US19440 W 19961118
 Applic (No,Kind,Date): NZ 325561 A 19961118
 IPC: * A61K-009/50; A61K-009/52; A61K-038/08; A61K-038/09; A61K-038/10
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English
 Patent (No,Kind,Date): NZ 335409 A 20001222
 USE OF A BURST FREE CONTROLLED RELEASE POLY(LACTIDE/GLYCOLIDE)
 MICROCAPSULE PHARMACEUTICAL FORMULATION (English)
 Patent Assignee: US GOV REPRESENTED BY THE SECR
 Author (Inventor): JEYANTHI RAMASUBBU; VAN HAMONT JOHN F; FRIDEN PHIL;
 REID ROBERT H; ROBERTS F DONALD; MCQUEEN CHARLES E; SETTERSTROM JEAN A
 Priority (No,Kind,Date): CN 96194768 A 19961118; NZ 325561 A1
 19961118; US 590973 A 19960124
 Applic (No,Kind,Date): NZ 335409 A 19961118
 IPC: * A61K-009/52; A61K-009/50; A61K-038/09; A61K-038/10; A61K-038/08
 CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F
 Language of Document: English

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5417986 A 19950523
 VACCINES AGAINST DISEASES CAUSED BY ENTEROPATHOGENIC ORGANISMS USING
 ANTIGENS ENCAPSULATED WITHIN BIODEGRADABLE-BIOCOMPATIBLE MICROSPHERES
 (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): REID ROBERT H (US); BOEDEKER EDGAR C (US); VAN
 HAMONT JOHN E (US); SETTERSTROM JEAN A (US)
 Priority (No,Kind,Date): US 867301 A 19920410; US 805721 B2
 19911121; US 690485 B2 19910424; US 521945 B2 19900511; US 493597
 B2 19900315; US 590308 A2 19840316
 Applic (No,Kind,Date): US 867301 A 19920410
 National Class: * 424499000; 424426000; 424455000; 424486000;
 424488000; 424489000; 424444000; 424433000; 424470000; 424491000;
 424422000
 IPC: * A61K-009/50; A61K-009/66; A61K-009/26
 CA Abstract No: * 115(22)239773J; 118(16)154539Z; 123(04)040923T;
 128(05)053260C; 129(05)058823U; 135(24)348878F; 137(04)052379X;
 123(04)040923T
 Derwent WPI Acc No: * C 91-295351; C 92-398530; C 95-199683; C
 96-019737; C 98-031704; C 98-347245; C 95-199683
 Language of Document: English
 Patent (No,Kind,Date): US 5470311 A 19951128
 MICROSPHERE DRUG APPLICATION DEVICE (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): SETTERSTROM JEAN A (US); JACOB ELLIOT (US); FRANZ
 WALTER K (US)
 Priority (No,Kind,Date): US 248050 A 19940524; US 493597 B2
 19900315
 Applic (No,Kind,Date): US 248050 A 19940524
 National Class: * 604024000; 604140000; 604147000; 604290000;
 128200140
 IPC: * A61M-037/00

CA Abstract No: * 115(22)239773J; 123(04)040923T; 128(05)053260C
 Derwent WPI Acc No: * C 91-295351; C 95-199683; C 96-019737; C 98-031704; C 96-019737
 Language of Document: English
 Patent (No,Kind,Date): US 5693343 A 19971202
 MICROPARTICLE CARRIERS OF MAXIMAL UPTAKE CAPACITY BY BOTH M CELLS AND NON-M CELLS (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): REID ROBERT H (US); VAN HAMONT JOHN E (US); BROWN WILLIAM R (US); BOEDEKER EGAR C (US); THIES CURT (US)
 Priority (No,Kind,Date): US 242960 A 19940516; US 867301 A2 19920410; US 805721 B2 19911121; US 690485 B2 19910424; US 521945 B2 19900511; US 493597 B2 19900315; US 590308 A2 19840316
 Applic (No,Kind,Date): US 242960 A 19940516
 Addnl Info: 5417986 Patented
 National Class: * 424491000; 424493000; 424486000; 424497000; 424499000; 424501000; 514788100; 514965000
 IPC: * A61K-009/16; A61K-009/50; A61K-047/30
 CA Abstract No: * 115(22)239773J; 118(16)154539Z; 123(04)040923T; 128(05)053260C; 128(10)119648U; 129(05)058823U; 135(24)348878F; 137(04)052379X; 137(15)222053F; 128(05)053260C
 Derwent WPI Acc No: * C 91-295351; C 92-398530; C 95-199683; C 96-019737; C 98-031704; C 98-129287; C 98-347245; C 98-031704
 Language of Document: English
 Patent (No,Kind,Date): US 5705197 A 19980106
 EXTRACTION PROCESS FOR PRODUCING PLGA MICROSPHERES (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): VAN HAMONT JOHN (US); THIES CURT (US); REID ROBERT H (US); MCQUEEN CHARLES E (US); SETTERSTROM JEAN A (US)
 Priority (No,Kind,Date): US 698896 A 19960816; US 242960 A2 19940516
 Applic (No,Kind,Date): US 698896 A 19960816
 National Class: * 424501000; 424491000
 IPC: * A61K-009/50
 CA Abstract No: * 128(05)053260C; 128(10)119648U; 129(05)058823U; 137(15)222053F; 128(10)119648U
 Derwent WPI Acc No: * C 98-031704; C 98-129287; C 98-347245; C 98-129287
 Language of Document: English
 Patent (No,Kind,Date): US 5762965 A 19980609
 VACCINES AGAINST INTRACELLULAR PATHOGENS USING ANTIGENS ENCAPSULATED WITHIN BIODEGRADABLE-BIOCOMPATIBLE MICROSPHERES (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): BURNETT PAUL R (US); VAN HAMONT JOHN E (US); REID ROBERT H (US); SETTERSTROM JEAN A (US); VAN COTT THOMAS C (US); BIRX DEBRAH L (US)
 Priority (No,Kind,Date): US 598874 A 19960209; US 242960 A2 19940516; US 446149 A2 19950522; US 590308 B1 19840316; US 867301 A2 19920410; US 805721 B2 19911121; US 690485 B2 19910424; US 521945 B2 19900511
 Applic (No,Kind,Date): US 598874 A 19960209
 Addnl Info: 5417986 Patented
 National Class: * 424499000; 424426000; 424455000; 424486000; 424488000; 424422000
 IPC: * A61K-009/00; A61K-009/66; A61K-009/14; A61F-013/00
 CA Abstract No: * 118(16)154539Z; 123(04)040923T; 128(05)053260C; 128(10)119648U; 129(05)058823U; 134(21)300792A; 135(24)348878F; 137(04)052379X; 137(15)222053F; 129(05)058823U
 Derwent WPI Acc No: * C 92-398530; C 95-199683; C 98-031704; C 98-129287; C 98-347245; C 98-347245
 Language of Document: English
 Patent (No,Kind,Date): US 6217911 BA 20010417

SUSTAINED RELEASE NON-STEROIDAL, ANTI-INFLAMMATORY AND LIDOCAINE PLGA MICROSPHERES (English)

Patent Assignee: US ARMY (US)

Author (Inventor): VAUGHAN WILLIAM M (US); VAN HAMONT JOHN E (US); SETTERSTROM JEAN A (US)

Priority (No,Kind,Date): US 675895 A 19960705; US 446149 A2 19950522

Applic (No,Kind,Date): US 675895 A 19960705

National Class: * 424501000; 424422000; 514570000

IPC: * A61K-009/50

CA Abstract No: * 129(05)058823U; 134(21)300792A; 135(24)348878F; 137(15)222053F; 134(21)300792A

Derwent WPI Acc No: * C 98-347245

Language of Document: English

Patent (No,Kind,Date): US 6309669 BA 20011030

THERAPEUTIC TREATMENT AND PREVENTION OF INFECTIONS WITH A BIOACTIVE MATERIALS ENCAPSULATED WITHIN A BIODEGRADABLE-BIOCOMPATIBLE POLYMERIC MATRIX (English)

Patent Assignee: US ARMY (US)

Author (Inventor): SETTERSTROM JEAN A (US); VAN HAMONT JOHN E (US); REID ROBERT H (US); JACOB ELLIOT (US); JEYANTHI RAMASUBBU (US); BOEDEKER EDGAR C (US); MCQUEEN CHARLES E (US); JARBOE DANIEL L (US); CASSELS FREDERICK (US); BROWN WILLIAM (US); THIES CURT (US); TICE THOMAS R (US); ROBERTS F DONALD (US); FRIDEN PHIL (US)

Priority (No,Kind,Date): US 789734 A 19970127; CN 96194768 A 19961118; US 590973 B2 19960124; US 446149 B2 19950522; US 446148 A2 19950522; US 867301 A2 19920410; US 590308 B2 19840316

Applic (No,Kind,Date): US 789734 A 19970127

Addnl Info: 5417986 19950523 Patented

National Class: * 424486000; 424484000; 424422000; 424423000; 424424000; 424425000

IPC: * A61K-009/52; A61K-047/30

CA Abstract No: * 123(04)040923T; 127(13)181162P; 128(05)053260C; 129(05)058823U; 129(13)166193X; 134(21)300792A; 135(24)348878F; 137(04)052379X; 137(15)222053F; 135(24)348878F

Derwent WPI Acc No: * C 95-199683; C 98-031704; C 98-347245; C 98-437043

Language of Document: English

Patent (No,Kind,Date): US 6410056 BA 20020625

CHEMOTHERAPEUTIC TREATMENT OF BACTERIAL INFECTIONS WITH AN ANTIBIOTIC ENCAPSULATED WITHIN A BIODEGRADABLE POLYMERIC MATRIX (English)

Patent Assignee: US ARMY (US)

Author (Inventor): SETTERSTROM JEAN A (US); JACOB ELLIOT (US); TICE THOMAS R (US)

Priority (No,Kind,Date): US 446148 A 19950522; US 209350 B2 19940107; US 493597 B2 19900315; US 590308 B2 19840316

Applic (No,Kind,Date): US 446148 A 19950522

National Class: * 424501000; 424502000; 428402240; 514772300

IPC: * A61K-009/50; A61K-047/30; B32B-005/16

CA Abstract No: * 115(22)239773J; 123(04)040923T; 128(05)053260C; 129(05)058823U; 135(24)348878F; 137(04)052379X; 137(15)222053F; 137(04)052379X

Derwent WPI Acc No: * C 91-295351; C 95-199683; C 96-019737; C 98-031704; C 98-347245

Language of Document: English

Patent (No,Kind,Date): US 6447796 BA 20020910

SUSTAINED RELEASE HYDROPHOBIC BIOACTIVE PLGA MICROSPHERES (English)

Patent Assignee: US ARMY (US)

Author (Inventor): VOOK NOELLE CHRISTINE (US); JACOB ELLIOTT (US); SETTERSTROM JEAN A (US); VAN HAMONT JOHN (US); VAUGHAN WILLIAM (US); DUONG HA (US)

Priority (No,Kind,Date): US 920326 A 19970821; CN 96194768 A

19961118; US 698896 A2 19960816; US 242960 A2 19940516; US 675895
 A2 19960705; US 789734 A2 19970127; US 590973 B2 19960124; US
 446149 B2 19950522; US 446148 A2 19950522
 Applic (No,Kind,Date): US 920326 A 19970821
 Addnl Info: 5705197 Patented; 5693343 Patented; 6217911 Patented;
 6309669 Patented
 National Class: * 424422000; 424426000; 424457000; 424468000
 IPC: * A61F-013/00; A61F-002/00; A61K-009/32; A61K-009/22
 CA Abstract No: * 127(13)181162P; 128(05)053260C; 128(10)119648U;
 129(05)058823U; 129(13)166193X; 134(21)300792A; 135(24)348878F; 137(
 04)052379X; 137(15)222053F; 137(15)222053F
 Derwent WPI Acc No: * C 98-031704; C 98-129287; C 98-347245; C
 98-437043
 Language of Document: English
 Patent (No,Kind,Date): US 6528097 BA 20030304
 SUSTAINED RELEASE NON-STEROIDAL, ANTI-INFLAMMATORY AND LIDOCAINE PLGA
 MICROSPHERES (English)
 Patent Assignee: US ARMY (US)
 Author (Inventor): VAUGHN WILLIAM M (US); VAN HAMONT JOHN E (US);
 SETTERSTROM JEAN A (US)
 Priority (No,Kind,Date): US 716856 A 20001120; US 675895 A3
 19960705; US 446149 B2 19950522; US 590308 B1 19840316
 Applic (No,Kind,Date): US 716856 A 20001120
 Addnl Info: 6217911 Patented
 National Class: * 424501000; 424422000; 514570000
 IPC: * A61K-009/50; A61K-031/19; A61F-013/00
 CA Abstract No: * 123(04)040923T; 128(05)053260C; 129(05)058823U;
 134(21)300792A; 135(24)348878F; 137(04)052379X; 137(15)222053F
 Derwent WPI Acc No: * C 95-199683; C 98-031704; C 98-347245
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5417986	P	19840316	US AA	PRIORITY
			US 590308	A2 19840316
US 5417986	P	19900315	US AA	PRIORITY
			US 493597	B2 19900315
US 5417986	P	19900511	US AA	PRIORITY
			US 521945	B2 19900511
US 5417986	P	19910424	US AA	PRIORITY
			US 690485	B2 19910424
US 5417986	P	19911121	US AA	PRIORITY
			US 805721	B2 19911121
US 5417986	P	19920410	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 867301	A 19920410
US 5417986	P	19950523	US A	PATENT
US 5470311	P	19900315	US AA	PRIORITY
			US 493597	B2 19900315
US 5470311	P	19940524	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 248050	A 19940524
US 5470311	P	19951128	US A	PATENT
US 5693343	P	19840316	US AA	PRIORITY
			US 590308	A2 19840316
US 5693343	P	19900315	US AA	PRIORITY
			US 493597	B2 19900315
US 5693343	P	19900511	US AA	PRIORITY
			US 521945	B2 19900511
US 5693343	P	19910424	US AA	PRIORITY
			US 690485	B2 19910424
US 5693343	P	19911121	US AA	PRIORITY

US 5693343	P	19920410	US AA	US 805721 B2 19911121	PRIORITY
US 5693343	P	19940516	US AE	US 867301 A2 19920410	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))	
US 5693343	P	19940901	US AS02	US 242960 A 19940516	ASSIGNMENT OF ASSIGNOR'S INTEREST
				UNITED STATES OF AMERICA, THE, AS REPRESENTED BY THE SECRETARY OF THE ARMY WASHI ; REID, ROBERT H. : 19940728; VANHAMONT, JOHN : 19940808; BROWN, WILLIAM R. : 19940728; BOEDEKER, EDGAR C. : 19940728; THI : 19940824	
US 5693343	P	19971202	US A		PATENT
US 5693343	P	20000208	US RF		REISSUE APPLICATION FILED (REISSUE APPL. FILED)
				19991130	
US 5705197	P	19940516	US AA		PRIORITY
				US 242960 A2 19940516	
US 5705197	P	19960816	US AE		APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))	
				US 698896 A 19960816	
US 5705197	P	19970218	US AS02		ASSIGNMENT OF ASSIGNOR'S INTEREST
				UNITED STATES, DEPARTMENT OF, REPRESENTED BY THE SECRETARY OF THE AMRY, THE WASH ; VAN HAMONT, JOHN E. : 19970114; THIES, CURT : 19970114; REID, ROBERT H. : 19960114; SETTERSTROM, JEAN A. : 19970114; MCQ : 19970114	
US 5705197	P	19980106	US A		PATENT
US 5705197	P	20000328	US RF		REISSUE APPLICATION FILED (REISSUE APPL. FILED)
				20000106	
US 5762965	P	19840316	US AA		PRIORITY
				US 590308 B1 19840316	
US 5762965	P	19900511	US AA		PRIORITY
				US 521945 B2 19900511	
US 5762965	P	19910424	US AA		PRIORITY
				US 690485 B2 19910424	
US 5762965	P	19911121	US AA		PRIORITY
				US 805721 B2 19911121	
US 5762965	P	19920410	US AA		PRIORITY
				US 867301 A2 19920410	
US 5762965	P	19940516	US AA		PRIORITY
				US 242960 A2 19940516	
US 5762965	P	19950522	US AA		PRIORITY
				US 446149 A2 19950522	
US 5762965	P	19960209	US AE		APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))	
				US 598874 A 19960209	
US 5762965	P	19970218	US AS02		ASSIGNMENT OF ASSIGNOR'S INTEREST
				ARMY, UNITED STATES GOVERNMENT AS REPRESENTED BY THE SECRETARY OF WASHINGTON, D. ; BURNETT, PAUL R. : 19960820; VAN HAMONT, JOHN E. : 19960807; REID, ROBERT H. : 19960807; SETTERSTROM, JEAN A. : 19960715;	
US 5762965	P	19980609	US A		PATENT
US 5762965	P	20000725	US RF		REISSUE APPLICATION FILED (REISSUE APPL. FILED)
				20000602	

US 6217911	P	19950522	US AA	PRIORITY (CONTINUATION IN PART)
		US 446149	A2	19950522
US 6217911	P	19960705	US AE	APPLICATION DATA (PATENT) (APPL. DATA (PATENT))
		US 675895	A	19960705
US 6217911	P	20010417	US BA	PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)
US 6217911	P	20020122	US CC	CERTIFICATE OF CORRECTION
US 6309669	P	19840316	US AA	PRIORITY
		US 590308	B2	19840316
US 6309669	P	19920410	US AA	PRIORITY (CONTINUATION IN PART)
		US 867301	A2	19920410
US 6309669	P	19950522	US AA	PRIORITY (CONTINUATION IN PART)
		US 446148	A2	19950522
US 6309669	P	19950522	US AA	PRIORITY
		US 446149	B2	19950522
US 6309669	P	19960124	US AA	PRIORITY
		US 590973	B2	19960124
US 6309669	P	19961118	US AA	PRIORITY (PATENT)
		CN 96194768	A	19961118
US 6309669	P	19970127	US AE	APPLICATION DATA (PATENT) (APPL. DATA (PATENT))
		US 789734	A	19970127
US 6309669	P	20011030	US BA	PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)
US 6410056	P	19840316	US AA	PRIORITY
		US 590308	B2	19840316
US 6410056	P	19900315	US AA	PRIORITY
		US 493597	B2	19900315
US 6410056	P	19940107	US AA	PRIORITY
		US 209350	B2	19940107
US 6410056	P	19950522	US AE	APPLICATION DATA (PATENT) (APPL. DATA (PATENT))
		US 446148	A	19950522
US 6410056	P	20020625	US BA	PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)
US 6447796	P	19940516	US AA	PRIORITY (CONTINUATION IN PART)
		US 242960	A2	19940516
US 6447796	P	19950522	US AA	PRIORITY (CONTINUATION IN PART)
		US 446148	A2	19950522
US 6447796	P	19950522	US AA	PRIORITY
		US 446149	B2	19950522
US 6447796	P	19960124	US AA	PRIORITY
		US 590973	B2	19960124
US 6447796	P	19960705	US AA	PRIORITY (CONTINUATION IN PART)
		US 675895	A2	19960705
US 6447796	P	19960816	US AA	PRIORITY (CONTINUATION IN PART)
		US 698896	A2	19960816
US 6447796	P	19961118	US AA	PRIORITY (PATENT)
		CN 96194768	A	19961118
US 6447796	P	19970127	US AA	PRIORITY (CONTINUATION IN PART)
		US 789734	A2	19970127
US 6447796	P	19970821	US AE	APPLICATION DATA (PATENT) (APPL. DATA (PATENT))

US 6447796 P 20020910 US BA 19970821 A PATENT (NO PREVIOUS
PRE-GRANT PUBLICATION)
US 6528097 P 19840316 US AA PRIORITY
US 590308 B1 19840316
US 6528097 P 19950522 US AA PRIORITY
US 446149 B2 19950522
US 6528097 P 19960705 US AA PRIORITY (DIVISION)
US 675895 A3 19960705
US 6528097 P 20001120 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 716856 A 20001120
US 6528097 P 20030304 US BA PATENT (NO PREVIOUS
PRE-GRANT PUBLICATION)

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9113595 A1 19910919

CHEMOTHERAPEUTIC TREATMENT OF BACTERIAL INFECTIONS WITH AN ANTIBIOTIC
ENCAPSULATED WITHIN A BIODEGRADABLE POLYMERIC MATRIX (English)

Patent Assignee: US ARMY (US)

Author (Inventor): SETTERSTROM JEAN A (US); TICE THOMAS R (US);
JACOB ELLIOT (US)

Priority (No,Kind,Date): US 493597 A 19900315

Applic (No,Kind,Date): WO 91US1777 A 19910315

Designated States: (National) AU; CA; FI; JP; NL; NO (Regional) AT;
BE; CH; DE; DK; ES; FR; GB; GR; IT; LU; NL; SE

Filing Details: WO 100000 With international search report

IPC: * A61F-002/00; A61F-013/00; A01N-025/26; A01N-025/28

CA Abstract No: ; 115(22)239773J

Derwent WPI Acc No: ; C 91-295351

Language of Document: English

Patent (No,Kind,Date): WO 9219263 A1 19921112

ORAL-INTESTINAL VACCINES AGAINST DISEASES CAUSED BY ENTEROPATHOGENIC
ORGANISMS USING ANTIGENS ENCAPSULATED WITHIN BIODEGRADABLE-BIOCOMPATI
BLE MICROSPHERES (English)

Patent Assignee: US ARMY (US)

Author (Inventor): REID ROBERT H (US); JARBOE DANIEL (US); CASSELS
FREDERICK J (US); BOEDEKER EDGAR C (US); SETTERSTROM JEAN A (US)

Priority (No,Kind,Date): US 690485 A 19910424

Applic (No,Kind,Date): WO 91US3328 A 19910513

Designated States: (National) AU; CA; FI; JP; NL; NO (Regional) AT;
BE; CH; DE; DK; ES; FR; GB; GR; IT; LU; NL; SE

Filing Details: WO 100000 With international search report

IPC: * A61K-039/00; A61K-039/12; A61K-039/02; A01N-037/18; A01N-037/00

CA Abstract No: ; 118(16)154539Z

Derwent WPI Acc No: ; C 92-398530

Language of Document: English

Patent (No,Kind,Date): WO 9726869 A1 19970731

NOVEL "BURST-FREE" SUSTAINED RELEASE POLY-(LACTIDE/GLYCOLIDE) MI
CROSPHERES (English)

Patent Assignee: US ARMY (US); JEYANTHI RAMASUBBU (US); HAMONT JOHN
F VAN (US); FRIDEN PHIL (US); REID ROBERT H (US); ROBERTS F DONALD
(US); MCQUEEN CHARLES E (US); SETTERSTROM JEAN A (US)

Author (Inventor): JEYANTHI RAMASUBBU (US); VAN HAMONT JOHN F (US);
FRIDEN PHIL (US); REID ROBERT H (US); ROBERTS F DONALD (US);
MCQUEEN CHARLES E (US); SETTERSTROM JEAN A (US)

Priority (No,Kind,Date): CN 96194768 A 19961118; US 590973 A
19960124

Applic (No,Kind,Date): WO 96US19440 A 19961118

Designated States: (National) AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA;
CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IS; JP; KE; KG; KP; KR;
KZ; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT;

RO; RU; SD; SE; SG; SI; SK; TJ; TM; TR; TT; UA; UG; US; UZ; VN; AM;
 AZ; BY; KG; KZ; MD; RU; TJ; TM (Regional) KE; LS; MW; SD; SZ; UG;
 AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;
 BF; BJ; CF; CG; CI; CM; GA; GN

Filing Details: WO 100000 With international search report

IPC: * A61K-009/50

CA Abstract No: * 127(13)181162P; 135(24)348878F; 137(15)222053F;
 127(13)181162P

Language of Document: English

Patent (No,Kind,Date): WO 9832427 A1 19980730

THERAPEUTIC TREATMENT AND PREVENTION OF INFECTIONS WITH A BIOACTIVE
 MATERIAL ENCAPSULATED WITHIN A BIODEGRADABLE-BIOCOMPATIBLE POLYMERIC
 MATRIX (English)

Patent Assignee: US ARMY (US); SETTERSTROM JEAN A (US); HAMONT JOHN
 E VAN (US); REID ROBERT H (US); JACOB ELLIOT (US); JEYANTHI
 RAMASUBBU (US); BOEDEKER EDGAR C (US); MCQUEEN CHARLES E (US);
 TICE THOMAS R (US); ROBERTS F DONALD (US); FRIDEN PHIL (US)

Author (Inventor): SETTERSTROM JEAN A (US); VAN HAMONT JOHN E (US);
 REID ROBERT H (US); JACOB ELLIOT (US); JEYANTHI RAMASUBBU (US);
 BOEDEKER EDGAR C (US); MCQUEEN CHARLES E (US); TICE THOMAS R (US);
 ROBERTS F DONALD (US); FRIDEN PHIL (US)

Priority (No,Kind,Date): US 789734 A 19970127

Applic (No,Kind,Date): WO 98US1556 A 19980127

Designated States: (National) AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY;
 CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; HU; IL; IS; JP;
 KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW;
 MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT;
 UA; UG; US; UZ; VN; YU; ZW (Regional) GH; GM; KE; LS; MW; SD; SZ;
 UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; DE; DK; ES;
 FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM;
 GA; GN; ML; MR; NE; SN; TD; TG

Filing Details: WO 130000 With international search report; Before
 expiration of time limit for amending the claims and to be
 republished in the event of the receipt of the amendments

IPC: * A61K-009/52; A61K-047/30

CA Abstract No: * 129(13)166193X; 135(24)348878F; 137(15)222053F;
 129(13)166193X

Derwent WPI Acc No: * C 98-437043; C 98-437043

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9113595	P	19900315	WO AA	PRIORITY (PATENT)
			US 493597 A	19900315
WO 9113595	P	19910315	WO AE	APPLICATION DATA (APPL. DATA)
			WO 91US1777 A	19910315
WO 9113595	P	19910919	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AU CA FI JP NL NO
WO 9113595	P	19910919	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AT BE CH DE DK ES FR GB GR IT LU NL SE
WO 9113595	P	19910919	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL

WO 9113595	P	19930115	WO NENP	NON-ENTRY INTO THE NATIONAL PHASE IN: CA
WO 9219263	P	19910424	WO AA	PRIORITY (PATENT) US 690485 A 19910424
WO 9219263	P	19910513	WO AE	APPLICATION DATA (APPL. DATA) WO 91US3328 A 19910513
WO 9219263	P	19921112	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AU CA FI JP NL NO
WO 9219263	P	19921112	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AT BE CH DE DK ES FR GB GR IT LU NL SE
WO 9219263	P	19921112	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9219263	P	19940224	WO NENP	NON-ENTRY INTO THE NATIONAL PHASE IN: CA
WO 9219263	P	19940309	WO 122	EP: PCT APP. NOT ENT. EUROP. PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE EING.)
WO 9726869	P	19960124	WO AA	PRIORITY (PATENT) US 590973 A 19960124
WO 9726869	P	19961118	WO AA	PRIORITY (PATENT) CN 96194768 A 19961118
WO 9726869	P	19961118	WO AE	APPLICATION DATA (APPL. DATA) WO 96US19440 A 19961118
WO 9726869	P	19970731	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AM AZ BY KG KZ MD RU TJ TM
WO 9726869	P	19970731	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) KE LS MW SD SZ UG AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
WO 9726869	P	19970731	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9726869	P	19970924	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:

		CA 2216371 AA	
WO 9726869	P	19970924 WO ENP	ENTRY INTO THE NATIONAL
		PHASE IN:	
		JP 97526833 A	
WO 9726869	P	19971022 WO 121	EP: PCT APP. ART. 158 (1)
		(EP: PCT ANM. ART. 158 (1))	
WO 9726869	P	19980528 DE 8642/REG	WITHDRAWAL (ZURUECKNAHME)
WO 9832427	P	19970127 WO AA	PRIORITY (PATENT)
		US 789734 A	19970127
WO 9832427	P	19980127 WO AE	APPLICATION DATA (APPL.
		DATA)	
		WO 98US1556 A	19980127
WO 9832427	P	19980730 WO AK	DESIGNATED STATES CITED IN A
		PUBLISHED APPLICATION WITH SEARCH REPORT	
		(DESIGNATED STATES CITED IN A PUBLISHED APPL.	
		WITH SEARCH REPORT)	
		AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ	
		DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP	
		KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX	
		NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR	
		TT UA UG US UZ VN YU ZW	
WO 9832427	P	19980730 WO AL	DESIGNATED COUNTRIES FOR
		REGIONAL PATENTS CITED IN A PUBLISHED	
		APPLICATION WITH SEARCH REPORT (DESIGNATED	
		COUNTRIES FOR REGIONAL PATENTS CITED IN A	
		PUBLISHED APPL. WITH SEARCH REPORT)	
		GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD	
		RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT	
		LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR	
		NE SN TD TG	
WO 9832427	P	19980730 WO A1	PUBLICATION OF THE
		INTERNATIONAL APPLICATION WITH THE	
		INTERNATIONAL SEARCH REPORT (PUB. OF THE	
		INTERNATIONAL APPL. WITH THE INTERNATIONAL	
		SEARCH REPORT)	
WO 9832427	P	19981015 WO DFPE	REQUEST FOR PRELIMINARY
		EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH	
		MONTH FROM PRIORITY DATE	
WO 9832427	P	19981230 WO 121	EP: PCT APP. ART. 158 (1)
		(EP: PCT ANM. ART. 158 (1))	
WO 9832427	P	19991125 DE 8642/REG	IMPACT ABOLISHED FOR DE (
		WIRKUNG WEGGEFALLEN FUER DE)	
WO 9832427	P	20000303 WO NENP	NON-ENTRY INTO THE NATIONAL
		PHASE IN:	
		JP 1998532237	
WO 9832427	P	20000712 WO 122	EP: PCT APP. NOT ENT. EUROP.
		PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE	
		EING.)	
WO 9832427	P	20000727 WO NENP	NON-ENTRY INTO THE NATIONAL
		PHASE IN:	
		CA	

?

** SS 1: Results 1

Query/Command : fil pluspat;us5693343/pn;prt max 1;...st

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5693343 A 19971202 [US5693343]
TI - (A) Microparticle carriers of maximal uptake capacity by both M cells and non-M cells
PA - (A) US ARMY (US)
PA0 - The United States of America as represented by the Secretary of the Army, Washington DC
IN - (A) VAN HAMONT JOHN E (US); REID ROBERT H (US); BOEDEKER EGAR C (US); WILLIAM R (US); THIES CURT (US)
AP - US24296094 19940516 [1994US-0242960]
FD - C.I.P. of US867301 19920410 [1992US-0867301]
C.I.P. of US805721 19911121 [1991US-0805721] (Abandoned)
C.I.P. of US690485 19910424 [1991US-0690485] (Abandoned)
C.I.P. of US521945 19900511 [1990US-0521945] (Abandoned)
C.I.P. of US493597 19900315 [1990US-0493597] (Abandoned)
C.I.P. of US590308 19840316 [1984US-0590308]
Continuation-in-part of: US5417986
PR - US24296094 19940516 [1994US-0242960]
US86730192 19920410 [1992US-0867301]
US80572191 19911121 [1991US-0805721]
US69048591 19910424 [1991US-0690485]
US52194590 19900511 [1990US-0521945]
US49359790 19900315 [1990US-0493597]
US59030884 19840316 [1984US-0590308]
IC - (A) A61K-009/16 A61K-009/50 A61K-047/30
EC - A61K-009/00N10
A61K-009/16H6D4
A61K-009/50H6D
C07K-014/245
PCL - ORIGINAL (O) : 424491000; CROSS-REFERENCE (X) : 424486000 424493000 424497000 424501000 514788100 514965000
DT - Corresponding document
CT - US4384975; US4530840
STG - (A) United States patent
AB - In a solvent extraction process for preparing microspheres of a biodegradable polymer, the process comprising: preparing a homogenized antigen-sucrose matrix and adding a solvent to the sucrose matrix to form a solution; preparing a solution of a biodegradable polymer by adding a solvent to the biodegradable polymer; adding the biodegradable polymer solution to the antigen-sucrose solution; adding an oil to the sucrose-antigen solution to form an emulsion having a controlled viscosity that corresponds to an average particle size of distributions of microspheres of biodegradable polymers; centrifuging the emulsion at a controlled viscosity and removing the supernatant to obtain microspheres of a predetermined size distributions of from about 0.5 to about 7.0 micrometers. An immunostimulating composition comprising an encapsulating-microsphere of the biodegradable polymer has an average particle size distribution such that the majority of the microspheres will be taken up by the villous epithelium section of the intestine of a mammalian subject when administered as a vaccine against diseases caused by enteropathogens.

mammalian subject when administered as a vaccine against diseases caused by enteropathogenic organisms.

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) ⓘ
Terms: **patno=5693343** ([Edit Search](#))

242960 (08) 5693343 December 2, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
5693343

◆ [GET 1st DRAWING SHEET OF 19](#)

[Access PDF of Official Patent.](#) (Note: Cost incurred in a later step)

The Adobe Acrobat Reader must be installed on your computer to access Official Patent text.
If you do not have this FREE reader, you can download it now from www.adobe.com.

[Link to Claims Section](#)

December 2, 1997

Microparticle carriers of maximal uptake capacity by both M cells and non- M cells
REISSUE: Reissue Application filed Nov. 30, 1999 (O.G. Feb. 8, 2000) Ex. Gp.: 1614; Re.
S.N. 09/451,321, (O.G. February 8, 2000)

APPL-NO: 242960 (08)

FILED-DATE: May 16, 1994

GRANTED-DATE: December 2, 1997

CORE TERMS: microsphere, cell, viscosity, particle, emulsion, oil, antigen, epithelium,
sphere, minute ...

ENGLISH-ABST:

In a solvent extraction process for preparing microspheres of a biodegrade polymer, the improvement comprising: preparing a homogenized antigen-sucrose matrix and adding a solvent to the sucrose-antigen matrix to form a solution; preparing a solution of a biodegradable polymer by adding a solvent to the polymer; adding the biodegradable polymer solution to the antigen-sucrose solution; adding an oil to the polymer-sucrose-antigen solution to form an emulsion having a controlled viscosity that corresponds to a predetermined average particle size of distributions of microspheres of biodegradable polymers; centrifuging the emulsion of controlled viscosity and removing the supernatant to obtain microspheres of a predetermined range of particle size distributions of from about 0.5 to about 7.0 micrometers. <P><P>An immunostimulating composition comprising an encapsulating-microsphere of the biodegradable polymer has an average particle size distribution such that the majority of the microspheres will be taken up by the villous epithelium section of the intestines of a mammalian subject when administered as a vaccine against diseases caused by enteropathogenic organisms.

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) ⓘ

Terms: **patno=5693343** ([Edit Search](#))

View: **Custom**

Segments: Appl-no, Applicants-ref, Assign-type, Date, Disclaimer-date, English-abst, English-title, Reexam-cert,
Reexam-litigate, Reissue, Reissue-comment

Date/Time: Monday, May 19, 2003 - 3:02 PM EDT



LexisNexis™ Total Research System

[Practice Area Pages](#)[Change Client](#)[Options](#)[Feedback](#)[Sign Off](#)[Help](#)**Search**[Search Advisor](#)[Get a Document](#)[Shepard's® - Check a Citation](#)

ECLIPSE™

[History](#)**Sources**[Guided Search Forms](#)[Command Searching](#)

[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Multi-Source Groups](#) > [Patent Cases from Federal Courts and Administrative Materials](#) ⓘ

Enter Search Terms☒ **Terms and Connectors** ☐ **Natural Language**

5693343 or 5,693,343

SearchUse connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document Segments**

Optional: Restrict by Date

☒ **No Date Restrictions**☐ **From****To**

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's® - Check a Citation](#)
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Practice Area Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Signoff](#) | [Help](#)
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2003 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

No Documents Found!


No documents were found for your search (5693343 or 5,693,343). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.


[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2003 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

 **LexisNexis™ Total Research System**

[Practice Area Pages](#) [Change Client](#) [Options](#) [Feedback](#) [Sign off](#) [Help](#)



Search [Search Advisor](#) [Get a Document](#) [Shepard's® - Check a Citation](#) [ECLIPSE™](#) [History](#) 

Sources [Guided Search Forms](#) [Command Searching](#)

[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Legal News](#) > [Patent, Trademark & Copyright Periodicals, Combined](#) 

Enter Search Terms

☒ **Terms and Connectors** ☐ **Natural Language**


5693343 or 5,693,343  **Search** 

Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

☒ **Suggest Words and Concepts for Entered Terms**

☒ **Restrict Search Using Document Segments**

Optional: Restrict by Date

☒ **No Date Restrictions**  ☐ **From** **To**

Search | [Search Advisor](#) | [Get a Document](#) | [Shepard's® - Check a Citation](#)
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Practice Area Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Signoff](#) | [Help](#)
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2003 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

No Documents Found!

No documents were found for your search (5693343 r 5,693,343). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2003 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.



LexisNexis™ Total Research System

[Practice Area Pages](#)[Change Client](#)[Options](#)[Feedback](#)[Sign off](#)[Home](#)**Search**[Search Advisor](#)[Get a Document](#)[Shepard's® - Check a Citation](#)[ECLIPSE™](#)[History](#)**Sources**[Guided Search Forms](#)[Command Searching](#)[News & Business](#) > [News](#) > [News Group File, Most Recent Twenty Years](#) ⓘ**Enter Search Terms**☒ **Terms and Connectors** ☐ **Natural Language**

5693343 or 5,693,343

SearchUse connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document Segments**

Optional: Restrict by Date

☒ **No Date Restrictions**☐ **From****To**

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's® - Check a Citation](#)
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Practice Area Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Signoff](#) | [Help](#)
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2003 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

No Documents Found!

No documents were found for your search (**5693343** or **5,693,343**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2003 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.